

**Notice of Allowability****Application No.**

10/764,569

**Examiner**

HIEU T. HOANG

**Applicant(s)**

MOTOYAMA ET AL.

**Art Unit**

2452

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to communication filed on 03/24/2009.
2. ☒ The allowed claim(s) is/are 1,2,5,10,11,13,18,19 and 22.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a) ☐ All b) ☐ Some\* c) ☐ None of the:  
1. ☐ Certified copies of the priority documents have been received.  
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.  
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached  
1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.  
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.  
**Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).**
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08),  
Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☒ Interview Summary (PTO-413),  
Paper No./Mail Date 5/19/09
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_.

/Kenny S Lin/  
Primary Examiner, Art Unit 2452

**DETAILED ACTION**  
**EXAMINER'S AMENDMENT**

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in telephone interviews with Kurt Berger on 05/19/2009 and 05/27/2009.

The claims have been amended as follows:

1. (Currently amended) A method of managing information related to at least one monitored device communicatively coupled to a network, comprising:

selecting a communication protocol among a plurality of communication protocols used to extract status information from the at least one monitored device;

retrieving, from a first memory, by a protocol object associated with the selected communication protocol, vendor and model information of the at least one monitored device;

obtaining, by the protocol object, a vendor name of a monitored device of the at least one monitored device supported by the selected communication protocol;

obtaining, by the protocol object, a model name corresponding to the obtained vendor name;

concatenating the obtained vendor name and the obtained model name to generate a descriptive string;

determining if the descriptive string is present in a vendor-model support map stored in a second memory, the vendor-model support map having at least one entry, wherein each entry includes a descriptive string and a vendor-model value;

if the determining step determines that the descriptive string is not present in the vendor-model support map, storing the descriptive string in the vendor-model support map in association with the protocol object; and

repeating the selecting, retrieving, obtaining the vendor name, obtaining the model name, concatenating, determining, and storing steps for each protocol of the plurality of communication protocols to generate a vendor-model support map for each of the plurality of communication protocols;

wherein the protocol object includes a type of status information, a weight of status information, and information for extracting the type of status information from the monitored device using the corresponding communication protocol;

wherein the method further comprising:

checking whether the weight of status information stored in the protocol object is greater than a corresponding weight associated with the type of status information stored in the second memory; and

if the weight of status information stored in the protocol object is greater than a corresponding weight associated with the type of status information stored in the

second memory, accessing the monitored device using the selected communication protocol and the information for extracting the type of status information from the monitored device.

27, 28. (Cancelled)

10. (Currently Amended) A system for managing information related to at least one monitored device communicatively coupled to a network, comprising:

means for selecting a communication protocol among a plurality of communication protocols used to extract status information from the at least one monitored device;

a first memory storing at least one protocol object;

means for retrieving, from the first memory, by a protocol object associated with the selected communication protocol, vendor and model information of the at least one monitored device;

means for obtaining, by the protocol object, a vendor name of a monitored device of the at least one monitored device supported by the selected communication protocol;

means for obtaining, by the protocol object, a model name corresponding to the obtained vendor name;

means for concatenating the obtained vendor name and the obtained model name to generate a descriptive string;

means for determining if the descriptive string is present in a vendor-model support map stored in a second memory, the vendor-model support map having at least one entry wherein each entry includes a descriptive string and a vendor-model value;

means for storing the descriptive string in the vendor-model support map ~~stored~~ in association with the protocol object, when the means for determining determines that the descriptive string is not present in the vendor-model support map ~~stored~~; and

means for ~~causing the repeated~~ repeating execution of the means for selecting, retrieving, obtaining the vendor name, obtaining the model name, concatenating, determining, and storing, for each protocol of the plurality of communication protocols to generate a vendor- model support map for each of the plurality of communication protocols;

wherein the protocol object includes a type of status information, a weight of status information, and information for extracting the type of status information from the monitored device using the corresponding communication protocol;

wherein the system further comprises:

means for checking whether the weight of status information stored in the protocol object is greater than a corresponding weight associated with the type of status information stored in the second memory; and

if the weight of status information stored in the protocol object is greater than a corresponding weight associated with the type of status information stored in the second memory, means for accessing the monitored device using the selected

communication protocol and the information for extracting the type of status information from the monitored device.

11. (Currently Amended) The system of claim 10, wherein the means for ~~creating~~ concatenating comprises:

means for concatenating the vendor name, the corresponding model name, and a separator string to generate the descriptive string.

18. (Currently Amended) A ~~non-transmissive~~ computer readable storage medium storing program instructions, which when executed by a computer, cause the computer to manage information related to at least one monitored device communicatively coupled to a network, the program instructions comprising:

instructions for selecting a communication protocol among a plurality of communication protocols used to extract status information from the at least one monitored device;

instructions for retrieving, from a first memory, by a protocol object associated with the selected communication protocol, vendor and model information of the at least one monitored device;

instructions for obtaining, by the protocol object, a vendor name of a monitored device of the at least one monitored device supported by the selected communication protocol;

instructions for obtaining, by the protocol object, a model name corresponding to the obtained vendor name;

instructions for concatenating the obtained vendor name and the obtained model name to generate a descriptive string;

instructions for determining if the descriptive string is present in a vendor-model support map stored in a second memory, the vendor-model support map having at least one entry, wherein each entry includes a descriptive string and a vendor-model value;

instructions for storing the descriptive string in the vendor-model support map stored in association with the protocol object, when the instructions for determining determine that the descriptive string is not present in the vendor-model support map stored; and

instructions for repeating the instructions for selecting, retrieving, obtaining the vendor name, obtaining the model name, concatenating, determining, and storing for each protocol of the plurality of communication protocols to generate a vendor-model support map for each of the plurality of communication protocols;

wherein the protocol object includes a type of status information, a weight of status information, and information for extracting the type of status information from the monitored device using the corresponding communication protocol;

wherein the program instructions further comprise:

instructions for checking whether the weight of status information stored in the protocol object is greater than a corresponding weight associated with the type of status information stored in the second memory; and

if the weight of status information stored in the protocol object is greater than a corresponding weight associated with the type of status information stored in the second memory, instructions for accessing the monitored device using the selected communication protocol and the information for extracting the type of status information from the monitored device.

19. (Currently Amended) The computer ~~readable~~ storage medium of claim 18, wherein the instructions for ~~creating~~ concatenating comprise:

instructions for concatenating the vendor name, the corresponding model name, and a separator string to generate the descriptive string.

22. (Currently Amended) The computer ~~readable~~ storage medium of claim 18, wherein the instructions for selecting comprise:

instructions for selecting the communication protocol among SNMP, HTTP, and FTP.

### ***Reasons for Allowance***

The following is an examiner's statement of reasons for allowance:

Claims 1, 2, 5, 10, 11, 13, 18, 19, 22 are allowed. The prior art of record does not teach the claimed invention, for at least, a vendor-model support map that contains protocols supported by a device identified by vendor-model information; wherein a protocol object of the protocols includes status information and a weight of the status



information used to determine a protocol based on the corresponding weight to access a device with.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### ***Conclusion***

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure is included in form PTO 892.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hieu T. Hoang whose telephone number is 571-270-1253. The examiner can normally be reached on Monday-Thursday, 8 a.m.-5 p.m., EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Follansbee can be reached on 571-272-3964. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

HH

/Kenny S Lin/

Primary Examiner, Art Unit 2452